

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-18 (canceled)

19. (Previously presented) A substance comprising a carbon nanotube, an electrochemiluminescence co-reactant attached to said carbon nanotube, and an electrochemiluminescent label attached to said carbon nanotube.
20. (Previously presented) The substance of claim 19, wherein said electrochemiluminescent label comprises a metal atom.
21. (Previously presented) The substance of claim 20, wherein said metal is Ru, Os or Re.
22. (Previously presented) The substance of claim 20, wherein said metal is Ru.
23. (Previously presented) The substance of claim 19, wherein said electrochemiluminescent label is $\text{Ru}(\text{bpy})_3^{2+}$.
24. (Currently amended) The substance of claim 19, wherein said ~~electrochemiluminescence~~ electrochemiluminescence co-reactant is NADH, NADPH, NAD⁺ or a derivative thereof.
25. (Previously presented) The substance of claim 19, wherein said electrochemiluminescent label is attached to said carbon nanotube via a functional group.
26. (Currently amended) The substance of claim 19, wherein said ~~electrochemiluminescence~~ electrochemiluminescence co-reactant is attached to said carbon nanotube via a functional group.

27. (Previously presented) The substance of claim 25, wherein said functional group is COOH.
28. (Previously presented) A composition comprising (i) the substance of claim 19 and (ii) an enzyme and/or a substrate.
29. (Previously presented) A kit comprising, in one or more containers, (i) the substance of claim 19 and (ii) an enzyme and/or a substrate.
30. (Previously presented) The composition of claim 28, wherein said composition comprises said enzyme and said enzyme is dehydrogenase.
31. (Previously presented) The composition of claim 30, wherein said dehydrogenase is glucose dehydrogenase.
32. (Previously presented) The kit of claim 29, wherein said composition comprises said enzyme and said enzyme is dehydrogenase.
33. (Previously presented) The composition of claim 30, wherein said composition comprises said substrate and said substrate is a substrate of dehydrogenase.
34. (Previously presented) A composition comprising (i) the substance of claim 19, (ii) an enzyme and (ii) a substrate to said enzyme.
35. (Currently amended) The composition of claim 34, wherein said ~~electrochemiluminescence~~ electrochemiluminescence co-reactant is NADH, NADPH, NAD⁺ or a derivative thereof.
36. (Currently amended) The composition of claim 34, wherein said ~~electrochemiluminescence~~ electrochemiluminescence co-reactant is NADH, NADPH, NAD⁺ or a derivative thereof, said enzyme is dehydrogenase and said substrate is a substrate of dehydrogenase.

37. (Currently amended) A method for detecting the presence or amount of analyte in a sample comprising:

(a) contacting said sample with an assay composition containing the substance of claim 19; and

(b) detecting or measuring ~~electrochemiluminescence~~
electrochemiluminescence emitted from said electrochemiluminescent label.

38. (Previously presented) The method of claim 37, wherein said analyte is an enzyme and said composition further comprises a substrate of said enzyme or said analyte is an enzyme substrate and said composition further comprises an enzyme for said enzyme substrate.

39. (New) The substance of claim 19, wherein said electrochemiluminescence co-reactant is an amine.

40. (New) The substance of claim 19, wherein said electrochemiluminescence co-reactant is a tertiary amine.

41. (New) The substance of claim 19, wherein said electrochemiluminescence co-reactant is a reductant which can be oxidized to form a highly reducing species.